UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,353	06/23/2003	Khachatur Papanyan	DC-05118	1252

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EXAMINER
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ART UNIT	PAPER NUMBER
2168	

DATE MAILED: 11/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>18 September 2006</u>.

2a)☒ This action is **FINAL.**   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1,4-6,8,12-15 and 19-21</u> is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1,4-6,8,12-15 and 19-21</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>24 March 2006</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a)☐ All   b)☐ Some * c)☐ None of:

         1.☐ Certified copies of the priority documents have been received.

         2.☐ Certified copies of the priority documents have been received in Application No. _____.

         3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
     Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
     Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

1.   The amendment filed 9/18/2006 have been received and entered.

2.   Claims 1, 4-6, 8, 12-15, and 19-21 are pending for examination.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4.   Claims 1, 4-6, 8, 11-14, 15, and 18-21 are rejected under 35 U.S.C. 102(e) as

being anticipated by Zhu ("Zhu" US Patent 6,990,526; filed 5/22/2001, claims priority

from Provisional Application 60/205/913 filed 5/22/2000)

        As per claim 1, Zhu teaches "A method for delivering a web page to a client,

comprising:" (see Abstract)

        "receiving a request from a client for a web page;" (column 4 lines 19-24, wherein

a client sends a request for a web page accepted by a cache module)

        "generating a query from a web server to a database server," (column 3 line 60 –

column 4 line 7, wherein a client gateway consisting of a cache module send a query to

a data gateway consisting of a management module) "said database server comprising

a plurality of data tables and a web page cache tables;" (Figure 2A references 218, 214

and column 5 lines 37-48, wherein a management module maintains a log table and a

signature table used for updating cache data)

"using said database server to detect execution of database triggers for updating

status flags in said web page cache table;" (column 6 lines 33-67, wherein the

coherency management module contains a decision process to monitor activity,

detecting when activity decisions are met and an update interval is indicated).

"examining a flag in a data field in said web page cache table corresponding to

said requested web page to determine if the most current version of said requested web

page is stored on said web;" (figure 4 and column 6 line 62 – column 7 line 12, wherein

the signature table in a data gateway is examined using a status bit to see if a page is

current or stale)

"and returning the most current version of the web page to the client." (column 4

lines 24-27, wherein the cache module in the client gateway returns a current web page

to a client)

As per claim 4, Zhu teaches "returning the version of said web page stored on

said web server to the client if the examination of said flag in said data field indicates

that the version of the web page stored on said web server is the most current version

of said requested web page." (column 6 lines 1-5, wherein a page is provided to the

client from cache if it is current and not stale)

As per claim 5, Zhu teaches "generating an updated version of said requested

web page if the examination of said flag in said data field indicates that the version of

the web page stored on said web server is not the most current version of said

requested web page;" (column 4 lines 27-37, wherein a request for an updated copy of

the web page is made when an update message is received if the page is indicated to

be stale) "and returning said updated version of said requested web page to said client."

(column 4 lines 19-27, wherein an updated page from the cache module is sent to the

client)

As per claim 6, <u>Zhu</u> teaches "caching said updated version of said requested

web page." (column 7 lines 33-39, wherein the updated web page is received and

stored in cache memory)

As per claim 8, <u>Zhu</u> teaches "A system for delivering a web page to a client,

comprising:" (see Abstract)

"a web server having a plurality of cached web pages stored therein, said web

server being operable to receive a request from a client for a web page and to

communicate with said database server to determine if a current version of said

requested web page is within said plurality of cached web pages stored in said web

server," (column 3 line 60 – column 4 line 7, wherein a client gateway consisting of a

cache module receives a page request from a client and sends a query to a data

gateway consisting of a management module) said web server further being operable to

transmit said requested web page to said client upon an affirmative determination that

the corresponding web page stored on said web server is the current version of said

requested web page;" (column 4 lines 19-27, wherein an updated page from the cache

module is sent to the client)

"a database server comprising a plurality of data tables and a web pace cache

table," (Figure 2A references 218, 214 and column 5 lines 37-48, wherein a

management module maintains a log table and a signature table used for updating

cache data) "said database server being operable to examine a flag in a data field in

said web page cache table corresponding to said requested web page to determine if

the most current version of said requested web page is stored on said web server,"

(figure 4 and column 6 line 62 – column 7 line 12, wherein the signature table in a data

gateway is examined using a status bit to see if a page is current or stale)

"wherein said database server is operable to detect the execution of a database

trigger and, in response to detection of execution of said database trigger, is further

operable to set said flag to a value indicating that the version of the web page stored on

said web server is not the most current version of said requested web page." (column 3

lines 36-48, and column 6 lines 33-67wherein the coherency management module in

the data gateway sets a stale bit for an associated web page indicating it is not the most

current version available and a decision process detects when an update interval is

indicated)

As per claim 12, Zhu teaches "said web server is operable to transmit the

version of said web page stored on said web server to the client if the examination of

said flag in said data field indicates that the version of the web page stored on said web

server is the most current version of said requested web page." (column 6 lines 1-5,

wherein a page is provided to the client from cache if it is current and not stale)

As per claim 13, Zhu teaches "generate an updated version of said requested web page if the examination of said flag in said data field indicates that the version of the web page stored on said web server is not the most current version of said requested web page;" (column 4 lines 27-37, wherein a request for an updated copy of the web page is made when an update message is received if the page is indicated to be stale) "and transmit said updated version of said requested web page to said client." (column 4 lines 19-27, wherein an updated page from the cache module is sent to the client)

As per claim 14, Zhu teaches "said database server is operable to update said web page cache table to set said flag to a value indicating that the version of the requested web page stored on said web server is the most current version of said requested web page." (column 7 lines 7-12, wherein the status bit is updated to indicate "current" in the signature cache table)

As per claim 15, Zhu teaches "An information handling system comprising a system for delivering a web page to a client, comprising:" (see Abstract)

"a plurality of data processing components operable to process data corresponding to a web page" (Figure 1 references 110, 120, 140, 160, 130, 132, 150, 152, 170, 172 and Figure 2A)

"wherein said information handling system is operable to communicate with:" (see Abstract)

"a web server having a plurality of cached web pages stored therein, said web

server being operable to receive a request from a client for a web page and to

communicate with said database server to determine if a current version of said

requested web page is within said plurality of cached web pages stored in said web

server," (column 3 line 60 – column 4 line 7, wherein a client gateway consisting of a

cache module receives a page request from a client and sends a query to a data

gateway consisting of a management module) said web server further being operable to

transmit said requested web page to said client upon an affirmative determination that

the corresponding web page stored on said web server is the current version of said

requested web page;" (column 4 lines 19-27, wherein an updated page from the cache

module is sent to the client)

"a database server comprising a plurality of data tables and a web pace cache

table," (Figure 2A references 218, 214 and column 5 lines 37-48, wherein a

management module maintains a log table and a signature table used for updating

cache data) "said database server being operable to examine a flag in a data field in

said web page cache table corresponding to said requested web page to determine if

the most current version of said requested web page is stored on said web server,"

(figure 4 and column 6 line 62 – column 7 line 12, wherein the signature table in a data

gateway is examined using a status bit to see if a page is current or stale)

"wherein said database server is operable to detect the execution of a database

trigger and, in response to detection of execution of said database trigger, is further

operable to set said flag to a value indicating that the version of the web page stored on

said web server is not the most current version of said requested web page." (column 3

lines 36-48, and column 6 lines 33-67wherein the coherency management module in

the data gateway sets a stale bit for an associated web page indicating it is not the most

current version available and a decision process detects when an update interval is

indicated)

As per claim 19, Zhu teaches "said web server is operable to transmit the

version of said web page stored on said web server to the client if the examination of

said flag in said data field indicates that the version of the web page stored on said web

server is the most current version of said requested web page." (column 6 lines 1-5,

wherein a page is provided to the client from cache if it is current and not stale)

As per claim 20, Zhu teaches "generate an updated version of said requested

web page if the examination of said flag in said data field indicates that the version of

the web page stored on said web server is not the most current version of said

requested web page;" (column 4 lines 27-37, wherein a request for an updated copy of

the web page is made when an update message is received if the page is indicated to

be stale) "and transmit said updated version of said requested web page to said client."

(column 4 lines 19-27, wherein an updated page from the cache module is sent to the

client)

As per claim 21, Zhu teaches "said database server is operable to update said

web page cache table to set said flag to a value indicating that the version of the

requested web page stored on said web server is the most current version of said

requested web page." (column 7 lines 7-12, wherein the status bit is updated to indicate

"current" in the signature cache table)

Response to Arguments

5.   Applicant's amendment, see page 7, filed 8/17/2006, with respect to the rejection

of claim 1 under 35 USC 112, second paragraph have been fully considered and are

persuasive. The rejection of claim 1 under 35 USC 112, second paragraph has been

withdrawn.

6.   Applicant's arguments with respect to the 35 USC 102(e) rejection of claims 1, 4-

6, 8, 12-15, and 19-21 have been fully considered but they are not persuasive.

  a.   Applicant's argument is stated as Zhu does not disclose detecting the

  execution of database triggers for updating status flags in said web page cache

  table.

    In response to the argument, Examiner respectfully disagrees. Zhu

  discloses a decision process within the coherency management module that

  detects activity decisions based on update intervals in column 6 lines 33-67. The

  coherency management module performs the functions of a database server in

  the instant art and the decision process within the module detects the execution

  of certain condition, acting like a database trigger to update the status of a page.

  In column 2 line 64 – column 3 line 8, the coherency management module and all

  its parts are installed into servers and gateways, implying that it is a software

application. Since the decision process detects when updating is required

automatically, database triggers are disclosed. Therefore, Zhu teaches detecting

the execution of database triggers for updating status flags in said web page

cache table.

Conclusion

7.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

8.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dangelino N. Gortayo whose telephone number is

(571)272-7204. The examiner can normally be reached on M-F 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tim T. Vo can be reached on (571)272-3642. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dangelino N. Gortayo   Tim T. Vo
Examiner   SPE

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